Connecting via Winsock to STN

```
Welcome to STN International! Enter x:x
LOGINID: SSSPTA1204RXW
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
                      Welcome to STN International
NEWS
                  Web Page URLs for STN Seminar Schedule - N. America
                  "Ask CAS" for self-help around the clock
NEWS
         Apr 08
                  BEILSTEIN: Reload and Implementation of a New Subject Area
         Apr 09
 NEWS
         Apr 09
                  ZDB will be removed from STN
 NEWS
         Apr 19
                 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS
         Apr 22
                 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS
         Apr 22
                 BIOSIS Gene Names now available in TOXCENTER
 NEWS
 NEWS 8
         Apr 22
                 Federal Research in Progress (FEDRIP) now available
         Jun 03
                 New e-mail delivery for search results now available
 NEWS 9
 NEWS 10
         Jun 10
                 MEDLINE Reload
                 PCTFULL has been reloaded
 NEWS 11
         Jun 10
 NEWS 12
         Jul 02
                 FOREGE no longer contains STANDARDS file segment
 NEWS 13
         Jul 22
                 USAN to be reloaded July 28, 2002;
                  saved answer sets no longer valid
                  Enhanced polymer searching in REGISTRY
         Jul 29
 NEWS 14
                 NETFIRST to be removed from STN
 NEWS 15
         Jul 30
         Aug 08
                  CANCERLIT reload
 NEWS 16
                  PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 17
         Aug 08
 NEWS 18
         Aug 08
                 NTIS has been reloaded and enhanced
                 Aquatic Toxicity Information Retrieval (AQUIRE)
 NEWS 19
         Aug 19
                  now available on STN
                  IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 20
         Aug 19
                  The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 21
         Aug 19
                  Sequence searching in REGISTRY enhanced
 NEWS 22
         Aug 26
                  JAPIO has been reloaded and enhanced
 NEWS 23
         Sep 03
                  Experimental properties added to the REGISTRY file
         Sep 16
 NEWS 24
                 CA Section Thesaurus available in CAPLUS and CA
         Sep 16
 NEWS 25
         Oct 01
                 CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 26
         Oct 21 EVENTLINE has been reloaded
 NEWS 27
 NEWS 28
         Oct 24
                 BEILSTEIN adds new search fields
         Oct 24
 NEWS 29
                 Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
 NEWS 31 Nov 18
                 DKILIT has been renamed APOLLIT
 NEWS 32
                 More calculated properties added to REGISTRY
         Nov 25
 NEWS 33
         Dec 02
                  TIBKAT will be removed from STN
 NEWS 34 Dec 04
                  CSA files on STN
 NEWS 35 Dec 17
                  PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 36 Dec 17
                  TOXCENTER enhanced with additional content
 NEWS 37 Dec 17
                  Adis Clinical Trials Insight now available on STN
 NEWS 38 Dec 30
                  ISMEC no longer available
 NEWS 39
         Jan 13
                  Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40
                  NUTRACEUT offering one free connect hour in February 2003
         Jan 21
 NEWS 41
                  PHARMAML offering one free connect hour in February 2003
         Jan 21
 NEWS 42
         Jan 29
                  Simultaneous left and right truncation added to COMPENDEX,
                  ENERGY, INSPEC
```

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 06:50:42 ON 05 FEB 2003

=> file req

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

0.21

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END): end

- => screen 2006 OR 1992 OR 2016 OR 2021 OR 2026 OR 1977 OR 1838
- L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506a.str

L2STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> s 13

SAMPLE SEARCH INITIATED 06:51:21 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* \*\*COMPLETE\*\* BATCH

PROJECTED ITERATIONS: OTO PROJECTED ANSWERS: 0 TO

0 SEA SSS SAM L2 NOT L1

=> s 13 ful

FULL SEARCH INITIATED 06:51:26 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

L51 SEA SSS FUL L2 NOT L1

=> d scan

1 ANSWERS REGISTRY COPYRIGHT 2003 ACS 1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) TN

MF C7 H12 Cl2 O2

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS L5

329270-10-2 REGISTRY RN

1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME) CN

FS 3D CONCORD

MF C7 H12 Cl2 O2

SR CA

LCSTN Files: CA, CAPLUS

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 150.23 150.44

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 06:52:04 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6 FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 15

L6 2 L5

=> dup rem 16

PROCESSING COMPLETED FOR L6

L7 2 DUP REM L6 (0 DUPLICATES REMOVED)

=> d 1-2 bib fhitstr

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

AN 2002:256214 CAPLUS

DN 136:294541

TI Process for producing fluorinated ester compounds

IN Okazoe, Takashi; Watanabe, Kunio; Tatematsu, Shin; Yanase, Koichi; Suzuki, Yasuhiro; Shirakawa, Daisuke

PA Asahi Glass Co., Ltd., Japan

SO PCT Int. Appl., 52 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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\_\_\_\_\_

\_\_\_\_\_\_

```
WO 2001-JP8433 20010927
PI
     WO 2002026688
                    A1
                           20020404
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2001092268
                      A5
                           20020408
                                         AU 2001-92268
PRAI JP 2000-295141
                           20000927
                      Α
                           20010927
     WO 2001-JP8433
                      W
     CASREACT 136:294541; MARPAT 136:294541
OS
IT
     329270-10-2P
     RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
     preparation); PREP (Preparation); RACT (Reactant or reagent)
        (process for producing fluorinated ester compd.)
RN
     329270-10-2 CAPLUS
     1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME)
CN
RE.CNT 5
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
L7
     2001:167952 CAPLUS
AN
     134:224308
DN
     Preparation of vic-dichloro acid fluoride as intermediates for preparing
ΤI
     monomers of fluoropolymers
     Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;
IN
     Tatematsu, Shin
     Asahi Glass Company, Limited, Japan
PA
     PCT Int. Appl., 66 pp.
so
     CODEN: PIXXD2
DТ
     Patent
LA
    English
FAN.CNT 2
     PATENT NO.
                    KIND DATE
                                         APPLICATION NO. DATE
     -----
                                         -----
                                         WO 2000-JP5888 20000830
                     A1
PI
     WO 2001016085
                           20010308
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
            HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
            SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
            CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     JP 2001139509
                      A2
                           20010522
                                        JP 2000-166773
                                                          20000602
                                         AU 2000-68660
     AU 2000068660
                      A5
                           20010326
                                                           20000830
     EP 1208075
                                         EP 2000-956818
                           20020529
                      A1
                                                           20000830
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL
     WO 2001094285
                                         WO 2001-JP1735
                                                           20010306
                     A1 20011213
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
```

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 2002107358 **A1** 20020808 US 2002-84506 PRAI JP 1999-246154 A 19990831 JP 2000-211722 Α 20000712 JP 2000-166773 Α 20000602 WO 2000-JP5888 W 20000830 OS MARPAT 134:224308 TT 329270-10-2P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)

1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME)

C1 | HO- (CH<sub>2</sub>)<sub>5</sub>-o-C= CH-C1

329270-10-2 CAPLUS

RN

CN

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
7.51 157.95

FULL ESTIMATED COST

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END): end

=> screen 970 AND 1015

SCREEN CREATED L8

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

SCREEN CREATED L9

=>

Uploading C:\Program Files\Stnexp\Queries\084506b.str

STRUCTURE UPLOADED L10

=> que L10 AND L8 NOT L9

L11 QUE L10 AND L8 NOT L9

=> s 111

SAMPLE SEARCH INITIATED 06:54:01 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2399 TO ITERATE

41.7% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) 50 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

\*\*COMPLETE\*\* BATCH

PROJECTED ITERATIONS:

45043 TO 50917 8644

PROJECTED ANSWERS:

6324 TO

L12 50 SEA SSS SAM L10 AND L8 NOT L9

=> d scan

REGISTRY COPYRIGHT 2003 ACS L12 50 ANSWERS

Iron, tetracarbonylbis[(2-propenyloxy)carbonyl]-, (OC-6-22)- (9CI) IN

MFC12 H10 Fe O8

CI CCS

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file stnguide COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

0.40 158.35

FULL ESTIMATED COST

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LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.18 158.53

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 06:56:04 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

- => screen 970 AND 1015
- L13 SCREEN CREATED
- => screen 1992 OR 2016 OR 2021 OR 2026 OR 1838 OR 973 OR 1918 OR 2008
- L14 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\084506b.str

- L15 STRUCTURE UPLOADED
- => que L15 AND L13 NOT L14
- L16 QUE L15 AND L13 NOT L14

=> s 116

SAMPLE SEARCH INITIATED 06:56:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1698 TO ITERATE

58.9% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01 50 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 31489 TO 36431 PROJECTED ANSWERS: 4321 TO 6273

L17 50 SEA SSS SAM L15 AND L13 NOT L14

=> d scan

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate,
2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenyl
2-methyl-2-propenoate, graft (9CI)

MF (C11 H20 O2 . C8 H14 O2 . C7 H10 O2 . C5 H8 O2 . C4 H6 O2)x

CI PMS, COM

CM 1

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_2-\text{O-C-CH} \longrightarrow \text{CH}_2 \\ \parallel \\ \text{Et-CH-Bu-n} \end{array}$$

CM 2

$$\begin{array}{c|c} O & CH_2 \\ \parallel & \parallel \\ n\text{-BuO-}C\text{--}C\text{--Me} \end{array}$$

CM 3

CM 4

$$\begin{array}{c|c} ^{H_2C} & \text{O} \\ \parallel & \parallel \\ \text{Me-} & \text{C-} & \text{C-} & \text{OMe} \end{array}$$

CM 5

=> file stnguide
COST IN U.S. DOLLARS

FULL ESTIMATED COST ENTRY SESSION 0.80 159.33

SINCE FILE

TOTAL

FILE 'STNGUIDE' ENTERED AT 06:57:17 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.96 160.29

FILE 'REGISTRY' ENTERED AT 07:06:41 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

- => screen 970 AND 1015
- L18 SCREEN CREATED
- => screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1838
- L19 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\084506b1.str

- L20 STRUCTURE UPLOADED
- => que L20 AND L18 NOT L19
- L21 QUE L20 AND L18 NOT L19

=> s 121

SAMPLE SEARCH INITIATED 07:07:24 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED

181 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

\*\*COMPLETE\*\* BATCH

PROJECTED ITERATIONS:

2813 TO 4427

PROJECTED ANSWERS:

44 TO 476

L22

13 SEA SSS SAM L20 AND L18 NOT L19

=> s 121 ful

FULL SEARCH INITIATED 07:07:34 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 3399 TO ITERATE

100.0% PROCESSED 3399 ITERATIONS 212 ANSWERS

SEARCH TIME: 00.00.01

L23

212 SEA SSS FUL L20 AND L18 NOT L19

=> d scan

L23 212 ANSWERS REGISTRY COPYRIGHT 2003 ACS

Ethenol, polymer with ethene and .alpha.-2-propenyl-.omega.-IN hydroxypoly(oxy-1,2-ethanediyl), block (9CI)

((C2 H4 O)n C3 H6 O . C2 H4 O . C2 H4)x MF

CI PMS

> CM 1

$$HO - CH_2 - CH_2 - O - CH_2 - CH_2 - CH_2 - CH_2$$

CM 2

 $H_2C = CH - OH$ 

CM 3

 $H_2C = CH_2$ 

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 121 ful css FULL SEARCH INITIATED 07:08:23 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 3399 TO ITERATE

100.0% PROCESSED 3399 ITERATIONS SEARCH TIME: 00.00.01

212 ANSWERS

L24 212 SEA CSS FUL L20 AND L18 NOT L19

=> file stnguide
COST IN U.S. DOLLARS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 297.50 457.79

FILE 'STNGUIDE' ENTERED AT 07:09:56 ON 05 FEB 2003.
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.18 457.97

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

L25 SCREEN CREATED

=> screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1838

L26 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\084506b1.str

L27 STRUCTURE UPLOADED

=> que L27 AND L25 NOT L26

L28 QUE L27 AND L25 NOT L26

=> s 128

SAMPLE SEARCH INITIATED 07:11:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 65 TO ITERATE

100.0% PROCESSED 65 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 817 TO 178

PROJECTED ANSWERS: 1 TO 80

L29 1 SEA SSS SAM L27 AND L25 NOT L26

=> s 128 ful

FULL SEARCH INITIATED 07:12:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 986 TO ITERATE

100.0% PROCESSED 986 ITERATIONS 1 ANSWERS SEARCH TIME: 00.00.01

L30 1 SEA SSS FUL L27 AND L25 NOT L26

=> d scan

L30 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS IN 1-Propanol, 3-(3-butenyloxy)- (9CI) MF C7 H14 O2

 $H_2C = CH - CH_2 - CH_2 - O - (CH_2)_3 - OH$ 

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 148.55 606.52

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6

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FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)
  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
=> s 130
            1 L30
L31
=> d
    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
     2001:167952 CAPLUS
AΝ
DN
     134:224308
     Preparation of vic-dichloro acid fluoride as intermediates for preparing
TI
     monomers of fluoropolymers
     Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;
IN
     Tatematsu, Shin
     Asahi Glass Company, Limited, Japan
PA
     PCT Int. Appl., 66 pp.
SO
     CODEN: PIXXD2
DT
     Patent
    English
T.A
FAN.CNT 2
                                          APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
                    ____
                                          -----
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                     A1 20010308
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            HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
            SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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     JP 2001139509
                                         AU 2000-68660
     AU 2000068660
                      A5
                           20010326
                                                          20000830
                           20020529
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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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     JP 2000-211722
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                      Α
     JP 2000-166773
                      Α
                           20000602
     WO 2000-JP5888
                           20000830
                      W
     MARPAT 134:224308
OS
             THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 4
```

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file req

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 1.43 607.95

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

SCREEN CREATED L32

=> screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1918 OR 1838

SCREEN CREATED L33

=> Uploading C:\Program Files\Stnexp\Queries\084506b2.str

STRUCTURE UPLOADED

=> que L34 AND L32 NOT L33

L35 QUE L34 AND L32 NOT L33

=> s 135

SAMPLE SEARCH INITIATED 07:13:45 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -0 TO ITERATE

100.0% PROCESSED SEARCH TIME: 00.00.01

0 ITERATIONS

O ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0 PROJECTED ANSWERS: 0 TO 0

L36 O SEA SSS SAM L34 AND L32 NOT L33 => s 135 ful

FULL SEARCH INITIATED 07:13:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED

9 ITERATIONS

1 ANSWERS

756.50

SEARCH TIME: 00.00.01

L37 1 SEA SSS FUL L34 AND L32 NOT L33

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

148.55

FULL ESTIMATED COST

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6 FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 137

L38 1 L37

=> d scan

L38 1 ANSWERS CAPLUS COPYRIGHT 2003 ACS

IC ICM C07C051-58

ICS C07C051-60; C07C067-287; C07C059-315; C07C069-708; C07C069-63; C07C043-178; C07C067-14; C07C067-307

- CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes) Section cross-reference(s): 23, 37
- TI Preparation of vic-dichloro acid fluoride as intermediates for preparing monomers of fluoropolymers
- ST dichloro acid fluoride fluoropolymer monomer intermediate; fluorination dichloro acid fluoride prepn
- IT Acid halides
  - RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(acid fluorides; prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)

IT Fluorination

(prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)

IT Fluoropolymers, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material

```
use); PREP (Preparation); USES (Uses)
        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
       monomers of fluoropolymers)
IT
     69818-05-9P
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     use); PREP (Preparation); USES (Uses)
        (monomers of fluoropolymers prepd. from vic-dichloro acid fluoride)
               296758-61-7P 296758-62-8P 296758-63-9P 296758-64-0P
IT
     296758-65-1P
                   296758-66-2P
                                  296758-88-8P
                                                296758-90-2P
                                                                329270-02-2P
     329270-07-7P
                   329270-08-8P
                                  329270-10-2P
                                                 329270-11-3P
                                                                329270-12-4P
     329270-13-5P
                   329270-14-6P
                                  329270-15-7P
                                                329270-16-8P
     329270-19-1P
    RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
       monomers of fluoropolymers)
IT
    RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or
     engineered material use); PREP (Preparation); RACT (Reactant or reagent);
     USES (Uses)
        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
       monomers of fluoropolymers)
     133587-57-2P
                  329270-09-9P
                                  329270-17-9P
                                                329270-18-0P
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       monomers of fluoropolymers)
     79-01-6, reactions 98-59-9, p-Toluene sulfonyl chloride
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     1,5-Pentanediol 355-15-7 422-61-7 504-63-2, 1,3-Propanediol
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        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
       monomers of fluoropolymers)
ALL ANSWERS HAVE BEEN SCANNED
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    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
L38
AN
     2001:167952 CAPLUS
DN
     134:224308
     Preparation of vic-dichloro acid fluoride as intermediates for preparing
TΤ
    monomers of fluoropolymers
    Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;
IN
     Tatematsu, Shin
PA
    Asahi Glass Company, Limited, Japan
    PCT Int. Appl., 66 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 2
    PATENT NO.
                    KIND DATE
                                         APPLICATION NO. DATE
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                                          -----
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                                                           20000830
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            LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
            SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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    EP 1208075
                      A1
                           20020529
                                         EP 2000-956818
                                                           20000830
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL
                      A1 20011213
                                          WO 2001-JP1735
                                                           20010306
    WO 2001094285
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            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                      A1 20020808
    US 2002107358
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PRAI JP 1999-246154
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                      Α
    JP 2000-211722
                      Α
                           20000712
     JP 2000-166773
                      Α
                           20000602
    WO 2000-JP5888
                           20000830
                      W
    MARPAT 134:224308
os
             THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 4
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

=> file reg COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 1.43 757.93

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963 AND 970 AND 1015

L39 SCREEN CREATED

```
pct/uso2/26050
=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838
    SCREEN CREATED
L40
Uploading C:\Program Files\Stnexp\Queries\084506b3.str
L41
       STRUCTURE UPLOADED
=> que L41 AND L39 NOT L40
L42 QUE L41 AND L39 NOT L40
=> s 142 ful
FULL SEARCH INITIATED 07:15:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE
                  13 ITERATIONS
100.0% PROCESSED
                                                              1 ANSWERS
SEARCH TIME: 00.00.01
             1 SEA SSS FUL L41 AND L39 NOT L40
=> ....Testing the current file.... screen
ENTER SCREEN EXPRESSION OR (END):end
=> screen 1992 OR 2016 OR 2009 OR 2021 OR 2026 OR 1838
L44 SCREEN CREATED
Uploading C:\Program Files\Stnexp\Queries\084506c.str
L45
       STRUCTURE UPLOADED
=> que L45 NOT L44
L46 QUE L45 NOT L44
=> s 146 ful
FULL SEARCH INITIATED 07:15:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE
100.0% PROCESSED
                      0 ITERATIONS
                                                              0 ANSWERS
SEARCH TIME: 00.00.01
L47
             0 SEA SSS FUL L45 NOT L44
=> ....Testing the current file.... screen
ENTER SCREEN EXPRESSION OR (END):end
=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838
L48
    SCREEN CREATED
Uploading C:\Program Files\Stnexp\Queries\084506d.str
```

STRUCTURE UPLOADED

L49

```
pct/uso2/26050
```

=> que L49 NOT L48

L50 QUE L49 NOT L48

=> s 150 ful

FULL SEARCH INITIATED 07:16:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L51 0 SEA SSS FUL L49 NOT L48

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1083

L52 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L53 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506e.str

L54 STRUCTURE UPLOADED

=> que L54 AND L52 NOT L53

L55 QUE L54 AND L52 NOT L53

=> s 155 ful

FULL SEARCH INITIATED 07:17:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

L56 0 SEA SSS FUL L54 AND L52 NOT L53

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L57 SCREEN CREATED

Uploading C:\Program Files\Stnexp\Queries\084506f.str

L58 STRUCTURE UPLOADED

=> que L58 NOT L57

L59 QUE L58 NOT L57

=> d

L59 HAS NO ANSWERS

L57 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L58 STR

Structure attributes must be viewed using STN Express query preparation. L59 QUE L58 NOT L57

=> s 159 ful

FULL SEARCH INITIATED 07:18:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L60 0 SEA SSS FUL L58 NOT L57

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L61 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506g.str

L62 STRUCTURE UPLOADED

=> que L62 NOT L61

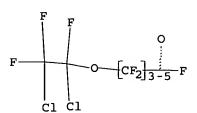
L63 QUE L62 NOT L61

=> d

L63 HAS NO ANSWERS

L61 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L62 STR



Structure attributes must be viewed using STN Express query preparation. L63 QUE L62 NOT L61

=> d 163 ful

L63 HAS NO ANSWERS

'FUL ' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ---- Structure Image, Attributes, and map table if it contains data. (Default)

SIM ---- Structure IMage.

SAT ---- Structure ATtributes and map table if it contains data. SCT ---- Structure Connection Table and map table if it contains

data.

SDA ---- All Structure DAta (image, attributes, connection table and map table if it contains data).

NOS ---- NO Structure data.

ENTER STRUCTURE FORMAT (SIA), SCT, SDA, SIM, SAT, NOS:end

=> s 163 ful

FULL SEARCH INITIATED 07:19:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 34 TO ITERATE

100.0% PROCESSED 34 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L64 3 SEA SSS FUL L62 NOT L61

=> d scan

L64 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Propanoic acid, 2-[[1,1,2,3,3,4,4,5,5,5-decafluoro-2-(trifluoromethyl)pentyl]oxy]-2,3,3,3-tetrafluoro-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI)

MF C16 C12 F30 O4

$$F_3C-CF_2-CF_2-C-CF_2-O-C-C-O-(CF_2)_5-O-C-CF_2-C_1$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 889.70 1647.63

FULL ESTIMATED COST

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INDEX NAME)

```
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strictly prohibited.
FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6
FILE LAST UPDATED: 4 Feb 2003
                             (20030204/ED)
  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
=> s 164
            3 L64
L65
=> dup rem 165
PROCESSING COMPLETED FOR L65
             3 DUP REM L65 (0 DUPLICATES REMOVED)
=> d 1-3 bib fhitstr
L66 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN
     2002:256214 CAPLUS
DN
     136:294541
TI
     Process for producing fluorinated ester compounds
     Okazoe, Takashi; Watanabe, Kunio; Tatematsu, Shin; Yanase, Koichi; Suzuki,
IN
     Yasuhiro; Shirakawa, Daisuke
PΑ
    Asahi Glass Co., Ltd., Japan
     PCT Int. Appl., 52 pp.
SO
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T.A
    Japanese
FAN.CNT 1
                    KIND DATE
    PATENT NO.
                                         APPLICATION NO. DATE
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            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                                         AU 2001-92268
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                           20010927
OS
    CASREACT 136:294541; MARPAT 136:294541
IT
     407634-48-4P
    RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
     (Preparation)
        (process for producing fluorinated ester compd.)
RN
     407634-48-4 CAPLUS
CN
    Propanoic acid, 2-[[1,1,2,3,3,4,4,5,5,5-decafluoro-2-
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(trifluoromethyl)pentyl]oxy]-2,3,3,3-tetrafluoro-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI) (CA

```
RE.CNT 5
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
L66
    ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
     2001:167952 CAPLUS
AN
DN
     134:224308
ΤI
     Preparation of vic-dichloro acid fluoride as intermediates for preparing
     monomers of fluoropolymers
     Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;
IN
     Tatematsu, Shin
PA
     Asahi Glass Company, Limited, Japan
SO
     PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 2
                                         APPLICATION NO. DATE
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                     KIND DATE
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PΙ
     WO 2001016085
                    A1 20010308
                                        WO 2000-JP5888
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     JP 2001139509
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                                       AU 2000-68660
EP 2000-956818
    AU 2000068660
                           20010326
                      Α5
                                                          20000830
    EP 1208075
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                           20020529
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            IE, SI, LT, LV, FI, RO, MK, CY, AL
                    A1 20011213
                                        WO 2001-JP1735
    WO 2001094285
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            HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
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            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    US 2002107358
                     A1 20020808
                                        US 2002-84506 20020228
PRAI JP 1999-246154
                           19990831
                      Α
    JP 2000-211722
                           20000712
                      Α
    JP 2000-166773
                           20000602
                      Α
    WO 2000-JP5888
                      W
                           20000830
os
    MARPAT 134:224308
IT
    329270-12-4P
    RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
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monomers of fluoropolymers)

329270-12-4 CAPLUS

RN

CN Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI) (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L66 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1991:206552 CAPLUS

DN 114:206552

TI Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for perfluoro(vinyl 3-butenyl ether)

IN Oharu, Kazuya; Kaneko, Isamu

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 02311438	A2	19901227	JP 1989-128681	19890524
	JP 2701454	B2	19980121		
PRAI	JP 1989-128681		19890524		

OS MARPAT 114:206552

IT 133587-57-2

RL: RCT (Reactant); RACT (Reactant or reagent)
 (thermal decompn. of, dichlorotrifluoroethyl perfluorobutenyl ether
 from)

RN 133587-57-2 CAPLUS

CN Pentanoyl fluoride, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-2,2,3,3,4,4,5,5-octafluoro-(9CI) (CA INDEX NAME)

=> file reg COST IN U.S. DOLLARS

SINCE · FILE TOTAL ENTRY SESSION 11.06 1658.69

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 07:22:30 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L67 SCREEN CREATED

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Uploading C:\Program Files\Stnexp\Queries\084506h.str

L68 STRUCTURE UPLOADED

=> que L68 NOT L67

L69 QUE L68 NOT L67

=> d

L69 HAS NO ANSWERS

L67

SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L68 ST

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CF_2 & CF_2 \\
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CCF_2 & CF_2 \\$$

Structure attributes must be viewed using STN Express query preparation. L69 QUE L68 NOT L67

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100.0% PROCESSED

2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L70 0 SEA SSS SAM L68 NOT L67

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FULL SCREEN SEARCH COMPLETED - 67 TO ITERATE

100.0% PROCESSED 67 ITERATIONS 5 ANSWERS

SEARCH TIME: 00.00.01

L71 5 SEA SSS FUL L68 NOT L67

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
148.15
1806.84

FILE 'CAPLUS' ENTERED AT 07:23:21 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6 FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 171

L72 3 L71

=> d 1-3 bib fhitstr

L72 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2001:472639 CAPLUS

DN 135:78102

TI Manufacture of fluorine-containing allyl ethers and higher homologs

IN Schulz, Jay F.; Moore, George G. I.; Schwertfeger, Werner; Hintzer, Klaus; Qiu, Zai-Ming; Guerra, Miguel A.; Hare, Erik D.; Worm, Allan T.

PA Dyneon LLC, USA

SO PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001046108 A1 20010628 WO 2000-US13116 20000512

W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB,

GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR,

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pct/uso2/26050
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                                        US 1999-470034
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                                          EP 2000-928975
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                                                            20000512
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PRAI US 1999-470034
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     WO 2000-US13116
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os
     MARPAT 135:78102
IT
     346671-28-1P
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
     (Reactant or reagent)
        (manuf. of fluorine-contg. allyl ethers and higher homologs)
RN
     346671-28-1 CAPLUS
CN
     Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-
     (trifluoromethoxy) ethoxy] - (9CI) (CA INDEX NAME)
C1-CF2-C-CF2-O-CF2-CF2-O-CF3
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RE.CNT 5
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
L72
AN
     2001:167952 CAPLUS
     134:224308
DN
ΤI
     Preparation of vic-dichloro acid fluoride as intermediates for preparing
     monomers of fluoropolymers
     Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;
IN
     Tatematsu, Shin
PΑ
     Asahi Glass Company, Limited, Japan
SO
     PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 2
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
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     WO 2001016085
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             LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
             SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
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                      Α5
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                           20020529
                                                           20000830
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IE, SI, LT, LV, FI, RO, MK, CY, AL 94285 Al 20011213 WO 2

WO 2001-JP1735

20010306

WO 2001094285

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                      A1 20020808
                                          US 2002-84506
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     US 2002107358
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                            20000830
     MARPAT 134:224308
OS
IT
     329270-16-8P
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. of vic-dichloro acid fluoride as intermediates for prepg.
        monomers of fluoropolymers)
RN
     329270-16-8 CAPLUS
     Butane, 1,2-dichloro-1,1,2,3,3,4,4-heptafluoro-4-[1,1,2,2,3,3-hexafluoro-3-
CN
     [1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethoxy]propoxy]- (9CI) (CA
     INDEX NAME)
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F_3C-C-O-(CF_2)_3-O-CF_2-CF_2-C-CF_2-C1
    F
                             Cl
RE.CNT 4
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
L72
     1997:576767 CAPLUS
AN
DN
     127:220385
TT
     Process for making dihalodifluoromethanes and their homologues from
     perfluorinated epoxides and dihalogens
IN
     Yang, Zhen-yu
PA
     E.I. Du Pont De Nemours and Co., USA; Yang, Zhen-Yu
     PCT Int. Appl., 15 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO. DATE
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PΙ
     WO 9730957
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                                                             19970206
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                                           EP 1997-904142 19970206
     EP 877724
                       A1
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     EP 877724
                       В1
                            20010613
         R: DE, FR, GB, IT
                            20000425
     JP 2000505082
                       T2
                                           JP 1997-530168
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     US 6002055
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                                                             19980819
PRAI US 1996-12160P
                       Р
                            19960223
     WO 1997-US1584
                       W
                            19970206
OS
     CASREACT 127:220385; MARPAT 127:220385
IT
     194983-27-2P
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RL: SPN (Synthetic preparation); PREP (Preparation)

(process for making dihalodifluoromethanes and their homologues from perfluorinated epoxides and dihalogens)

RN 194983-27-2 CAPLUS

CN Acetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-(9CI) (CA INDEX NAME)

$$C1-CF_2-C-CF_2-O-CF_2-C-F$$

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 10.64 1817.48

FILE 'REGISTRY' ENTERED AT 07:24:53 ON 05 FEB 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d 171 1-5

L71 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2003 ACS

RN 346671-35-0 REGISTRY

CN Propane, 1-[2-(2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)-1,1,2,2-tetrafluoroethoxy]-1,1,2,2,3,3,3-heptafluoro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C8 Cl2 F16 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2003 ACS

346671-28-1 REGISTRY RN

Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-CN (trifluoromethoxy)ethoxy] - (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C6 Cl2 F12 O2

SR

STN Files: CA, CAPLUS, USPATFULL LC

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2003 ACS

329270-17-9 REGISTRY RN

Propanoyl fluoride, 3-(3,4-dichloro-1,1,2,2,3,4,4-heptafluorobutoxy)-CN 2,2,3,3-tetrafluoro- (9CI) (CA INDEX NAME)

3D CONCORD

FS

C7 Cl2 F12 O2 MF

SR CA

STN Files: CA, CAPLUS LC

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2003 ACS

RN329270-16-8 REGISTRY

CN Butane, 1,2-dichloro-1,1,2,3,3,4,4-heptafluoro-4-[1,1,2,2,3,3-hexafluoro-3-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethoxy]propoxy]- (9CI) (CA INDEX NAME)

3D CONCORD FS

C12 C12 F24 O3 MF

SR CA

LC STN Files: CA, CAPLUS

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1962 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
- L71 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2003 ACS
- RN 194983-27-2 REGISTRY
- CN Acetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-(9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C5 Cl2 F8 O2
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1962 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file uspatful
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

1826.68

9.20

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 07:26:11 ON 05 FEB 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2002

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Feb 2003 (20030204/PD)
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)
HIGHEST GRANTED PATENT NUMBER: US6516468
HIGHEST APPLICATION PUBLICATION NUMBER: US2003024026
CA INDEXING IS CURRENT THROUGH 4 Feb 2003 (20030204/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Feb 2003 (20030204/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<< >>> original, i.e., the earliest published granted patents or <<< >>> applications. USPAT2 contains full text of the latest US <<< >>> publications, starting in 2001, for the inventions covered in <<< >>> USPATFULL. A USPATFULL record contains not only the original <<< >>> published document but also a list of any subsequent <<< >>> publications. The publication number, patent kind code, and <<< >>> publication date for all the US publications for an invention <<< >>> are displayed in the PI (Patent Information) field of USPATFULL <<<

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records and may be searched in standard search fields, e.g., /PN, <<<
     /PK, etc.
     USPATFULL and USPAT2 can be accessed and searched together
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     through the new cluster USPATALL. Type FILE USPATALL to
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>>> Use USPATALL when searching terms such as patent assignees,
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     classifications, or claims, that may potentially change from
                                                                           <<<
     the earliest to the latest publication.
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This file contains CAS Registry Numbers for easy and accurate
substance identification.
=> s 171
L73
             2 L71
=> d 1-2 bib fhitstr
L73 ANSWER 1 OF 2 USPATFULL
AN
       2001:103044 USPATFULL
ΤI
       Fluorine containing allylethers and higher homologs
IN
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       Moore, George G. I., Afton, MN, United States
       Schwertfeger, Werner, Bavaria, Germany, Federal Republic of
       Hintzer, Klaus, Woodbury, MN, United States
       Qiu, Zai-Ming, Woodbury, MN, United States
       Guerra, Miguel A., Woodbury, MN, United States
       Hare, Erik D., St. Paul, MN, United States
       Worm, Allan T., N. St. Paul, MN, United States
PA
       Dyneon LLC, Oakdale, MN, United States (U.S. corporation)
       3M Innovative Properties Company, St. Paul, MN, United States (U.S.
       corporation)
PΙ
       US 6255535
                           В1
                                20010703
ΑI
       US 1999-470034
                                19991222 (9)
DT
       Utility
FS
       GRANTED
EXNAM Primary Examiner: Shippen, Michael L.
LREP
       Lilly, James V.
CLMN
       Number of Claims: 14
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 370
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 346671-28-1P
        (manuf. of fluorine-contg. allyl ethers and higher homologs)
RN
     346671-28-1 USPATFULL
CN
     Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-
       (trifluoromethoxy) ethoxy] - (9CI) (CA INDEX NAME)
C1-CF<sub>2</sub>-C-CF<sub>2</sub>-O-CF<sub>2</sub>-CF<sub>2</sub>-O-CF<sub>3</sub>
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L73 ANSWER 2 OF 2 USPATFULL
AN 1999:163910 USPATFULL
TI Process for making dihalodifluoromethanes and their homologues
IN Yang, Zhen-Yu, Wilmington, DE, United States

E. I. du Pont de Nemours and Company, Wilmington, DE, United States PA

(U.S. corporation)

US 6002055 19991214 PI

WO 9730957 19970828

ΑI US 1998-125465 19980819 (9)

WO 1997-US1584 19970206

19980819 PCT 371 date

19980819 PCT 102(e) date

US 1996-12160P PRAI 19960223 (60)

DT Utility FS Granted

EXNAM Primary Examiner: Siegel, Alan

CLMN Number of Claims: 10 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 486

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 194983-27-2P

(process for making dihalodifluoromethanes and their homologues from perfluorinated epoxides and dihalogens)

RN194983-27-2 USPATFULL

CNAcetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-(9CI) (CA INDEX NAME)

$$c_{1}-c_{F_{2}}-c_{C}-c_{F_{2}}-c_{C}-c_{F_{2}}-c_{C}-c_{F_{2}}$$

=> log y

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION FULL ESTIMATED COST 16.16 1842.84

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NEWS 41

NEWS 42 Jan 29

Jan 21

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                 Web Page URLs for STN Seminar Schedule - N. America
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      2 Apr 08
                 "Ask CAS" for self-help around the clock
                 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 3 Apr 09
NEWS 4 Apr 09
                 ZDB will be removed from STN
NEWS 5 Apr 19
                 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22
                 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
NEWS 14
         Jul 29
                 Enhanced polymer searching in REGISTRY
                 NETFIRST to be removed from STN
NEWS 15
         Jul 30
NEWS 16 Aug 08
                 CANCERLIT reload
NEWS 17
         Aug 08
                 PHARMAMarketLetter (PHARMAML) - new on STN
NEWS 18
         Aug 08
                 NTIS has been reloaded and enhanced
NEWS 19 Aug 19
                 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
         Aug 19
NEWS 20
                 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19
                 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22
         Aug 26
                 Sequence searching in REGISTRY enhanced
NEWS 23
         Sep 03
                 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16
                 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16
                CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17
                 TOXCENTER enhanced with additional content
NEWS 37 Dec 17
                 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30
                 ISMEC no longer available
NEWS 39 Jan 13
                 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21
                 NUTRACEUT offering one free connect hour in February 2003
```

PHARMAML offering one free connect hour in February 2003

Simultaneous left and right truncation added to COMPENDEX,

ENERGY, INSPEC

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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FILE 'TULSA2' ENTERED AT 07:31:24 ON 05 FEB 2003 COPYRIGHT (C) 2003 The University of Tulsa (UTULSA)

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FILE 'USPAT2' ENTERED AT 07:31:24 ON 05 FEB 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 07:31:24 ON 05 FEB 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> fsearch jp02311438/pn

SEA JP02311438/PN
24 FILES SEARCHED...
L1 5 JP02311438/PN

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pct/uso2/26050
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     ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
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                                                       FAMILY
     Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for
TI
     perfluoro(vinyl 3-butenyl ether)
     ANSWER 2 OF 5 DPCI (C) 2003 THOMSON DERWENT
1.3
                                                       FAMILY
     1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using
тT
     precursors with monomers having two double bonds of different reactivity.
     ANSWER 3 OF 5 INPADOC COPYRIGHT 2003 EPO
L3
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                                                                  DUPLICATE 1
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1.3
                                                       FAMILY
TI
     NOVEL FLUORINE-CONTAINING COMPOUND, ITS PRODUCTION AND USE
     ANSWER 5 OF 5 WPIDS (C) 2003 THOMSON DERWENT
L3
                                                       FAMILY
ΤI
     1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using
     precursors with monomers having two double bonds of different reactivity.
=> d 1-5 all
     ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
1.3
                                                       FAMILY
                                                                  1
AN
     1991:206552 CAPLUS
DN
     114:206552
ΤI
     Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for
     perfluoro(vinyl 3-butenyl ether)
IN
     Oharu, Kazuya; Kaneko, Isamu
```

PA

SO

DT

Asahi Glass Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

Patent

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pct/uso2/26050
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LA
     Japanese
    ICM C07C043-17
IC
     ICS C07C041-22; C07C041-24
CC
     23-3 (Aliphatic Compounds)
     Section cross-reference(s): 35
FAN.CNT 1
                  KIND DATE
                                         APPLICATION NO. DATE
    PATENT NO.
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    JP 02311438 A2 19901227 JP 1989-128681 19890524 <--
JP 2701454 B2 19980121
PΤ
                    B2 19980121
PRAI JP 1989-128681
                          19890524
    MARPAT 114:206552
os
    CF2XCFYOCF2CF2CF:CF2 (I; X, Y = halo other than F), a process for the
AB
    prepn. of I by thermal decompn. of CF2XCFYO(CF2)4COZ (II; Z = F, OM; M =
     K, Na), and a process for the prepn. of CF2:CF0CF2CF2CF:CF2 (III), useful
     as a monomer, by treatment of I with dehalogenating agents, e.g. Zn, are
     claimed. II (Z = ONa) was heated at 260.degree. under a decreased
    pressure for 8 h to give 95% I (X = Y = Cl), which was gradually added
     dropwise to Zn in 1,4-dioxane at 90.degree. and the reaction mixt. was
     further refluxed for 6 h to give 62% III.
ST
     fluorodichloroethyl perfluorobutenyl ether dechlorination; fluorovinyl
     fluorobutenyl ether prepn monomer; fluorodichloroethoxypentanoyl fluoride
     thermal decompn; fluorodichloroethoxypentanoate salt thermal decompn
    Monomers
IT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (fluoro, perfluoro(vinyl butenyl ether))
IT
     133587-59-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and dechlorination of, vinyl ether from)
IT
     69818-05-9P
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        (prepn. of, as monomer)
ΙT
     133587-57-2 133587-58-3
                                133601-00-0
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        (thermal decompn. of, dichlorotrifluoroethyl perfluorobutenyl ether
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L3
    ANSWER 2 OF 5 DPCI (C) 2003 THOMSON DERWENT
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    1991-053484 [08] DPCI
DNC C1991-022640
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    1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using
    precursors with monomers having two double bonds of different reactivity.
DC
    A41 E16
PA
     (ASAG) ASAHI GLASS CO LTD
CYC
    JP 02311438 A 19901227 (199108)* 3p
JP 2701454 B2 19980121 (199808) 3p
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    JP 02311438 A JP 1989-128681 19890524; JP 2701454 B2 JP 1989-128681
    19890524
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    JP 2701454 B2 Previous Publ. JP 02311438
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    C07C041-22; C07C043-17
    ICM C07C043-17
    ICS C07C041-18; C07C041-22; C07C041-24
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    CPI
CTCS CITATION COUNTERS
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PNC.DI 0
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    Cited by Examiner
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               A US 5557010 A 1996-433040/43
    JP 2311438
                  PA: (DOWC) DOW CHEM CO
                   IN: DARST, K P; EZZELL, B R; ISHIBE, N
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LEVEL 2
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AN
DT
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PΤ
     JP 2701454B B2 19980121
ΑI
     JP 1989-128681
                        A 19890524
PRAI JP 1989-128681
                        A 19890524
ICM
     (6) C07C043-17
     (6) C07C041-18; (6) C07C041-24
ICS
L3
    ANSWER 4 OF 5 JAPIO COPYRIGHT 2003 JPO 1
AN
    1990-311438
                  JAPIO
TI
    NOVEL FLUORINE-CONTAINING COMPOUND, ITS PRODUCTION AND USE
IN
    OHARU KAZUYA; KANEKO ISAMU
PA
    ASAHI GLASS CO LTD
PΙ
    JP 02311438 A 19901227 Heisei
    JP 1989-128681 (JP01128681 Heisei) 19890524
AΙ
PRAI JP 1989-128681
                       19890524
SO
    PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990
IC
    ICM C07C043-17
    ICS C07C041-22; C07C041-24
AB
    NEW MATERIAL: A compound of formula 1 (X and Y are each halogen except F).
    EXAMPLE: 1,2 dichloro-1,1,2,4,4,5,5,6,7,7-decafluoro-3-oxa-heptene.
    USE: Useful as a precursor of a monomer having two kinds of double bond
    differing in reactivity from each other.
    PREPARATION: The objective compound of the formula I can be obtained by
    thermal decomposition of a compound of formula II (Z is F or OM; M is K or
    Na). Specifically, perfluoroglutaryl fluoride is reacted with
    hexafluoropropylene oxide followed by vapor pyrolysis to make a partial
    thermal decomposition to form a compound of formula III. The double bond
    in this compound is then protected with a halogen followed by further
    thermal decomposition, thus obtaining the objective compound of the
    formula I.
    COPYRIGHT: (C) 1990, JPO&Japio
L3
    ANSWER 5 OF 5 WPIDS (C) 2003 THOMSON DERWENT
                                                  FAMILY
                                                             1
AN
    1991-053484 [08]
                      WPIDS
DNC C1991-022640
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1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using precursors with monomers having two double bonds of different reactivity.

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DC
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PA
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     JP 02311438
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                                               3p
ADT
     JP 02311438 A JP 1989-128681 19890524; JP 2701454 B2 JP 1989-128681
     19890524
FDT
    JP 2701454 B2 Previous Publ. JP 02311438
PRAI JP 1989-128681 19890524
     C07C041-22; C07C043-17
     ICM C07C043-17
     ICS C07C041-18; C07C041-22; C07C041-24
AΒ
     JP 02311438 A UPAB: 19930928
     Fluorine cpds. of formula (I), their prepn. and cpd. (II) prepn. using (I)
     are new.
          CF2XCFYOCF2CF2CF=CF2 (I)
          CF2=CF0CF2CF2CF=CF2 (II)
          X, Y = Cl, Br, I.
          USE/ADVANTAGE - (I) are useful as precursors for (II), monomer having
     two double bonds of mutually different reactivites. (II) can be produced
     from (I) in high purities without formation of isomer of formula
          CF2=CFOCF2CF=CFCF3
          (I) are prepd. by thermally decomposing cpds. of
     CF2XCFYOCF2CF2CF2CC(=O)Z
          (Z=F, OM(M=K, Na))
          When Z = F, decompositodecomposition is performed at 400-550 deg.C in
     gaseous phase. When Z = OM, reaction temp. is 150-300, (200-280) deg.C.
     Raw materials are obtd. from perfluoroglutaryl fluoride. (II) is prepd. by
     reacting (I) with dehalogenating agents such as zinc in polar solvent e.g.
     diglyme, 1,4-dioxane, methanol, etc. Use amt. molar ratio of
     dehalogenating agent is 2-6, (3-4) -fold to (I). Reaction temp. is 20-150
     (30-100) deq.C.
     0/0
FS
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FA
     AB; DCN
MC
     CPI: A01-C; A01-D11; A01-D12; E10-H01C
=> log y
COST IN U.S. DOLLARS
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                                                                 TOTAL
                                                               SESSION
                                                      ENTRY
FULL ESTIMATED COST
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                                                                 60.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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